

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: FAIL-SAFE

Report Number: P489415

Luminaire Tested: **CLM-24-4-INS-A12125-LD4-1LO-40-120-EDD**

Issue Date: 3/11/2021

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



**Test Information**

Test Method: LM-79-08  
Report Number: P489415  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-115-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/11/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: CLM-24-4-INS-A12125-LD4-1LO-40-120-EDD  
Description: 2X4 CLM LED LUMINAIRE WITH A12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

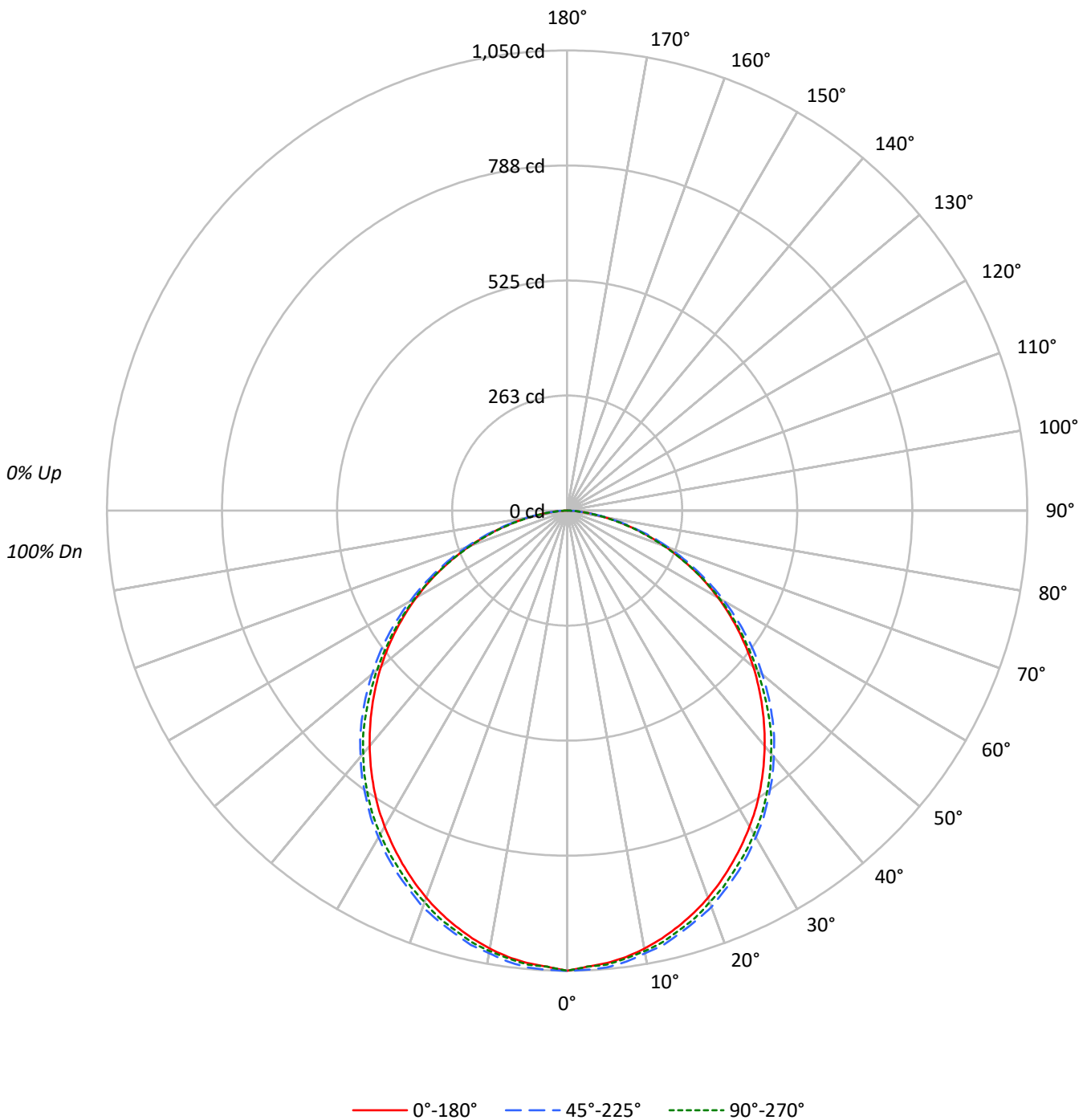
Lumens per Lamp: N/A  
Luminaire Lumens: 2760.9 lumens  
Efficiency: N/A  
Efficacy: 118.0 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 23.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT

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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	100	97	106	102	98	95	98	95	92	94	92	89	91	88	87	85
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	70	64	73	68	63	71	66	62	60
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	51
5	77	64	55	48	75	63	54	48	61	53	48	59	52	47	57	51	47	45
6	71	58	49	42	69	57	48	42	55	47	42	53	47	41	52	46	41	39
7	66	52	44	38	64	51	43	37	50	43	37	49	42	37	47	41	37	35
8	61	48	39	34	60	47	39	33	46	38	33	45	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	1413	1413	1413
5°	1400	1413	1404
10°	1387	1401	1394
15°	1368	1390	1380
20°	1346	1378	1362
25°	1320	1358	1343
30°	1293	1337	1325
35°	1264	1314	1302
40°	1231	1288	1272
45°	1197	1257	1234
50°	1161	1217	1185
55°	1119	1171	1135
60°	1071	1116	1081
65°	1010	1048	1010
70°	929	966	919
75°	818	855	805
80°	665	693	657
85°	463	492	482



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	98.9	3.6
10°-20°	280.3	10.2
20°-30°	418.0	15.1
30°-40°	495.3	17.9
40°-50°	501.2	18.2
50°-60°	437.7	15.9
60°-70°	319.9	11.6
70°-80°	170.2	6.2
80°-90°	39.3	1.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	797.2	28.9
0°-40°	1292.5	46.8
0°-60°	2231.5	80.8
0°-90°	2760.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2760.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1050	1050	1050	1050	1050	
5°	1036	1038	1046	1049	1040	98
15°	982	988	998	1004	991	277
25°	889	900	915	918	904	410
35°	770	782	800	806	793	481
45°	629	640	661	661	648	485
55°	477	487	499	492	484	426
65°	317	324	329	323	317	314
75°	157	161	164	158	155	167
85°	30	30	32	32	31	38
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1050.1	1050.1	1050.1	1050.1	1050.1
2.5°	1041.9	1045.3	1048.8	1050.4	1041.8
5°	1036.5	1038.4	1046.2	1048.6	1039.8
7.5°	1027.5	1030.5	1038.0	1039.1	1030.6
10°	1015.2	1020.5	1025.5	1031.0	1020.6
12.5°	999.6	1006.7	1015.2	1016.2	1008.4
15°	982.0	988.5	997.8	1003.9	990.8
17.5°	962.3	968.6	980.7	981.8	973.9
20°	940.3	948.2	962.6	965.1	951.0
22.5°	915.4	926.0	938.0	940.4	930.0
25°	889.2	900.1	915.0	918.4	904.5
27.5°	861.8	872.4	889.1	891.5	879.8
30°	832.5	842.4	860.8	864.8	852.9
32.5°	802.8	812.6	833.0	836.4	824.8
35°	769.7	781.8	800.2	805.8	792.8
37.5°	736.0	747.7	768.7	773.8	759.8
40°	701.1	712.7	733.4	737.6	724.1
42.5°	665.5	677.0	699.2	699.8	688.6
45°	629.0	640.2	660.7	661.3	648.3
47.5°	592.0	603.3	621.7	619.6	607.4
50°	554.6	565.3	581.4	577.3	566.2
52.5°	515.9	526.3	541.5	534.7	524.3
55°	476.9	486.6	499.3	492.0	483.9
57.5°	437.7	447.4	457.1	449.8	442.8
60°	398.0	406.6	414.6	407.1	401.8
62.5°	357.8	365.1	372.0	364.9	359.9
65°	317.1	323.5	329.2	322.7	317.3
67.5°	276.6	282.1	287.3	280.5	275.0
70°	236.1	240.8	245.6	238.6	233.5
72.5°	196.2	200.3	204.6	197.8	193.3
75°	157.3	160.9	164.4	158.4	154.9
77.5°	120.2	123.3	125.7	121.9	118.5
80°	85.8	88.1	89.5	88.0	84.8
82.5°	55.1	56.8	57.6	57.4	55.4
85°	30.0	30.5	31.9	32.3	31.2
87.5°	11.6	12.4	12.7	13.7	12.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)